

INVITATION FOR BID NO. GSA-069-16 PORTS AND SWITCHES

Amendment # 4

August 3, 2016

1. Amend to extend Bid Opening

FROM: August 8, 2016, 2:00 P.M.

TO: August 12, 2016, 2:00 P.M.

2. Amend to replace Pages 34 thru 42 of 42, Revised 07/15/2016 with the attached:

a. "Pages 34 thru 42 of 42, Revised 08/02/16"

All others remain unchanged.

ANITA T. CRUZ

Acting Chief Procurement Officer

| ITEM NO. | DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION | |
|---------------|--|-----------------------|-------------|--|--|--|
| 4.1 | Installation and Configuration As per the following specifications | 1 | JOB | \$ | \$ | |
| SPEC | IFICATIONS: | | | BIDDING ON/REM | MARKS/COMPLY | |
| Install | new switches in the designated rack | | | | | |
| Move | Ethernet patch cables from existing switched | es to new sw | vitches | | | |
| Config | gure the new switches in management stack | | | | | |
| Create | two port link aggregation group between to | wo stacks | | | | |
| Create | up to Five (5) VLANs | | | | | |
| | | | | | | |
| Biddin | ng On: | | | | | |
| | acturer: | | | | | |
| | | | | | | |
| Make: | - | | - | | | |
| Model | : | | _ | | | |
| Place o | of Origin: | | - | | | |
| Date o | f Delivery: | | _ | | | |
| | pove specifications have been developed beline Z. Cruz, Chief of Staff. DESCRIPTION | by the staff QTY | of the Offi | ice of the Attorney G UNIT PRICE | eneral and approved by PRICE EXTENSION | |
| 5.1 | 24 PORT SWITCH – 8-1/10 GB SFP PORT BROCADE ICX 7250 24 Portion of the following specifications | 1 <mark>ort</mark> | EA | \$ | \$ | |
| | IFICATIONS: Ports: 10/100/1000 | | | BIDDING ON/REM | MARKS/COMPLY | |
| | SFP Port Activated (2) w/ Module (2) FP Port Activated (8) w/ Module (2) | | | | | |
| | FP Single Fiber Module - LR (2) | | | | | |
| | P Single Fiber Module - LR (2) Class 3 Port 24 port | | | | | |
| | LC-LCPatch Cable 6 feet - (6) | | | | | |
| | Attached Copper Cable-Twinax (1) | | | | | |
| Stacki | ng bandwidth: 80GPS Full Duplex ng density: 12 Stacking Distance: 10km | | | | | |
| Conso VLAN | le Management: USB / Serial w/ cable | | | | | |
| _ | ing Trees (STP): Max: 254 Addresses: Max 16,000 | | | | - VI | |

| SPECIFICATIONS: | BIDDING ON/REMARKS/COMPLY |
|---|---------------------------|
| Routes: Max 12,000 Trunking: 16 | |
| QOS Priority Queues: 8 | |
| Jumbo Frame Size: 9216 Bytes | |
| AC Power Supply 120-220V | - |
| Switching Capacity: 176Gbps | |
| Forwarding Capacity 132Mpps | |
| Layer 2 Switching: | |
| 802.1s Multiple Spanning Tree | |
| 802.1x Authentication | |
| Auto MDI/MDIX | |
| BPDU Guard, Root Guard | |
| Dual-Mode VLANs | |
| MAC-based VLANs, Dynamic MAC based | |
| VLAN activation | |
| Dynamic VLAN Assignment | |
| Dynamic Voice VLAN Assignment | |
| Fast Port Span | |
| GARP VLAN Registration Protocol | |
| IGMP Snooping {vl/v2/v3} link Fault Signaling (LFS) | |
| IGMP Vian Registration Protocol | |
| IGMP Snooping (vI/v2/v3) | |
| IGMP Proxy for Static Groups | |
| IGMP v/2/v3 Fast leave | |
| IGMP Tracking | |
| Inter-Packed -Pap (IPG) adjustment | |
| MAC Address Locking; Port Security MAC-Layer Filtering | |
| MAC learning Disable | |
| MLD Snooping {vl/v2) | |
| Multi-device Authentication | |
| Per-VLAN Spanning Tree (PVST/PVST +/PVRST) | |
| Port-based Access Control lists | |
| Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based • | |
| | |
| Port Loop Detection Private VLAN | |
| Protected Link Groups | |
| Protocol VLAN (802.1v), Subnet VLAN | |
| Remote Fault Notification (RFN) | |
| Single-instance Spanning Tree | |
| Single-link LACP Trunk Groups Uni Directional Link Detection (UDLD) | |
| Uni-Directional Link Detection (UDLD) | |
| Layer 3 Routing | |
| 1 Pv4 & 1 Pv6 statics route | |
| EMCP | _ |
| Port based Access Control List VRRP-E 1 Pv6 over 1 Pv4 Tunnels | |
| OSPF v3 | |
| | |
| PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4 multicast Routing functionality) | |
| RIPng | |
| No. 115 | |
| SDN Feature: | |
| Support OpenFlowVI.0& VI.3 Feature | |
| OpenFlow support w/ true hybrid post mode | |
| Operates seamlessly under the controller | |
| Quality of Service (QOS) ACL Mapping and Marking of ToS/DSC | |
| ACL Mapping and Marking of 103/D3C ACL Mapping and Marking of 802.1p | |
| ACL Mapping to Priority Queue | |
| ACL Mapping to ToS/DSCP | |
| Classifying and Limiting Flows Based on TCP Flags | |

| DHCF DiffSe Honor MAC Priori Strict I IEEE High A L3 VF Real T Hitless Protect Hot ins Five (5 | Relay ry Support ing DSCP and 802. 1p Address Mapping to Priority Queue ty Queue Management using Weighted Round Ro Priority (SP) & a combination of WRR and SP & RFC Standards Compliance availability RP protocal Redundancy ime state synchronization across the stack failover from master to standby stack controller ated link group sertion & removal of stacked units by year warranty parts & Labor Office of Technology has upgraded the netwood of the state of the stack of the stacked units by year warranty parts & Labor | vork with | | switches. Specification | | |
|---|---|-----------|-----|-------------------------|--------------------|--|
| ITEM NO. | DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION | |
| 6.1 | 24 PORT SWITCH - 4 1Gb SFP PORT BROCADE ICX7250 24 Port As per the following specifications | 1 | EA | \$ | \$ | |
| RJ-45 1GB S IG ST Poe+ 0 Fiber 1 Direct Advan Stacki Conso VLAN Spann MAC Routes QOS I Jumbo AC Po Switcl Forwa Layer 802.1s 802.1x | Ports: 10/100/1000 SFP Port Activated (8) w/ Module (2) P Single Fiber Module - LR (2) Class 3 Port 24 port LC-LCPatch Cable 6 feet - (6) Attached Copper Cable-Twinax (1) ced 1Pv4/v6 L3 routing {RIP, OSPF} ing bandwidth: 80GPS Full Duplex ing density: 12 Stacking Distance: 10km le Management: USB / Serial w/ cable l:4096 ing Trees (STP): Max: 254 Addresses: Max 16,000 i: Max 12,000 Trunking: 16 Priority Queues: 8 Frame Size: 9216 Bytes over Supply 120-220V ining Capacity: 176Gbps rding Capacity: 176Gbps rding Capacity: 132Mpps 2 Switching: Multiple Spanning Tree Authentication MDI/MDIX | | | BIDDING ON/REM | IARKS/COMPLY | |
| Dual-l MAC- VLAN Dynar Dynar Fast P GARF IGMP link Fa | Guard, Root Guard Mode VLANs based VLANs, Dynamic MAC based VLAN Assignment nic VLAN Assignment ort Span VLAN Registration Protocol Snooping {vl/v2/v3} mult Signaling (LFS) Vian Registration Protocol Snooping (v1/v2/v3) | | | | | |

| SPECIFICATIONS: IGMP Proxy for Static Groups IGMP v/2/v3 Fast leave | BIDDING ON/REMARKS/COMPLY |
|---|---------------------------|
| IGMP Tracking Inter-Packed -ap {IPG} adjustment MAC Address Locking; Port Security MAC-Layer Filtering MAC learning Disable MLD Snooping {vI/v2} Multi-device Authentication | |
| Per-VLAN Spanning Tree (PVST/PVST +/PVRST) Port-based Access Control lists Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based • Port Loop Detection Private VLAN | |
| Protected Link Groups Protocol VLAN (802.Iv), Subnet VLAN Remote Fault Notification (RFN) Single-instance Spanning Tree Single-link LACP Trunk Groups Uni-Directional Link Detection (UDLD) | |
| Layer 3 Routing 1 Pv4 & 1 Pv6 statics route | |
| EMCP | |
| Port based Access Control List VRRP-E | |
| 1 Pv6 over 1 Pv4 Tunnels | |
| OSPF v3 PIM-SM, PIM-SSM, PIM-OM, PIM passive (1 Pv4 multicast routing functionality) RIPng | |
| SDN Feature: Support OpenFlowV1.0& V1.3 Feature OpenFlow support w/ true hybrid post mode Operates seamlessly under the controller Quality of Service (QOS) ACL Mapping and Marking of ToS/DSC ACL Mapping and Marking of 802.1p ACL Mapping to Priority Queue ACL Mapping to ToS/DSCP Classifying and Limiting Flows Based on TCP Flags DHCP Relay DiffSery Support Honoring DSCP and 802. 1p MAC Address Mapping to Priority Queue Priority Queue Management using Weighted Round Robin (WRR), Strict Priority (SP) & a combination of WRR and SP IEEE & RFC Standards Compliance High Availability L3 VRRP protocal Redundancy Real Time state synchronization across the stack Hitless failover from master to standby stack controller | |
| Protected link group | |
| Hot insertion & removal of stacked units | |

Note: Office of Technology has upgraded the network with Brocade switches. Specifications is similar to existing Brocade switches installed within the government.

Five (5) year warranty — parts & Labor

| ITEM NO. | DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION |
|-------------|--|--------|-----|----------------|--------------------|
| 7.1 | 48 PORT SWITCH - 8 1/10Gb SFP port Brocade ICX7250 48 Port As per the following specifications | 1 | EA | \$ | \$ |
| SPEC | IFICATIONS: | | | BIDDING ON/REI | MARKS/COMPLY |
| RJ-45 | Ports: 10/100/1000 | | | | |
| 10GB | SFP Port Activated (2) w/ Module (2) | | | | |
| 1GB | SFP Port Activated (8) w/ Module (2) | | | | |
| | FP Single Fiber Module - LR (2) | | | | |
| | P Single Fiber Module - LR (2) | | | | |
| | Class 3 Port 48 port LC-LCPatch Cable 6 feet - (6) | | | | |
| | Attached Copper Cable-Twinax (1) | | | | |
| | iced 1Pv4/v6 L3 routing (RIP, OSPF) | | | | |
| | ng bandwidth: 80GPS Full Duplex ng density: 12 | | | | |
| | ng Distance: 10km | | | | |
| | le Management: USB / Serial w/cable | | | | |
| VLAN | | | | | |
| | ing Trees (STP}: Max: 254 Address-s: Max 16,000 | | | | |
| | s: Max 12,000 | | | | |
| | ing: 16 | | | | |
| | Priority Queues: 8 Frame Size: 9216 | | | | |
| | AC Power Supply 120-220V | | | | |
| Switc | ning Capacity: 176Gbps | | | | |
| Forwa | rding Capacity 132Mpps | | | | |
| Laver | 2 Switching: | | | | |
| 802.1 | Multiple Spanning Tree | | | | |
| | Authentication MDI/MDIX | | | | |
| | UGuard, Root Guard | | | | |
| Dual- | Mode VLANs | | | | |
| | based VLANs, Dynamic MAC based | | | | |
| | Nactivation nic VLAN Assignment | | | | |
| | nic Voice VLAN Assignment | | | | |
| | ort Span | | | | |
| | VLAN Registration Protocol Snooping (vI/v2/v3) | | | | |
| | Fault Signaling (LFS) | | | | |
| | Vian Registration Protocol | | | | |
| | Snooping (vI/v2/v3) Proxy for Static Groups | | | | |
| | v/2/v3 Fast Leave IGMP Tracking | | | | |
| | Packed Gap (IPG) adjustment | | | | |
| | Address Locking; ecurity MAC-Layer Filtering | | | (| |
| | Learning Disable | | | | |
| | Snooping (vI/v21) | | | | |
| | device Authentication LAN Spanning Tree (PVST/PVST +/PVRS) | T} | | (| |
| | ased Access Control Lists | ., | | | |
| | ring - Port-based, ACL-based, MAC Filter-b | based, | | | |
| | LAN-based oop Detection | | | | |
| | e VLAN | | | | |
| | ted link Groups | | | | |
| | ol VLAN (802.Iv), Subnet VLAN te Fault Notification (RFN) | | | - | |
| | e-instance Spanning Tree | | | | |
| Single | -link LACP | | | | |
| | Groups irrectional link Detection (UDLD) | | | | |
| OIII-L | rectional link Detection (ODLD) | | | | |

| 1 Pv4 & 1 Pv6 statics route EMCP Port based Access Control list VRRP-E 1 Pv6 over 1 Pv4 Tunnels OSPF v3 PIM-SM, PIM-SSM, PIM-DM, PIM passive (1 Pv4 multicast routing functionality) RIPng SDN Feature: Support Open Flow VI.0& VI.3 Feature OpenFlow support w/ true hybrid post mode Operates seamlessly under the controller Quality of Service (QOS) ACL Mapping and Marking of ToS/DSC ACL Mapping to Priority Queue Priority Queue Management using Weighted Round Robin (WRR), Strict Priority (SP) & a combination of WRR and SP IEEE & RFC Standards Compliance High Availability 13 VRRP protocal Redundancy Real Time state synchronization across the stack Hitless failover from master to standby stack controller Protected link group Hot insertion & removal of stacked units Five (5) Year Warranty- Parts & Labor Note: Office of Technology has upgraded the ne | twork with | a Brocade s | switches. Specification | ns is similar to existing | ng |
|--|------------|-------------|-------------------------|---------------------------|----|
| Brocade switches installed within the government | ent. | | IDIT | DDIGE | |
| ITEM NO. DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION | |
| 8.1 48 PORT SWITCH - 4 1Gb SFP port Brocade ICX7250 48 Port As per the following specifications | 1 | EA | \$ | \$ _ | |
| SPECIFICATIONS: | | | BIDDING ON/REM | IARKS/COMPLY | |
| RJ-45 Ports: 10/100/1000 1GB SFP Port Activated (8) w/ Module"(2) IG STP Single Fiber Module - LR (2) Poe+ Class 3 Port 48 port Fiber LC-LCPatch Cable 6 feet - (6) Direct Attached Copper Cable-Twinax (1) | | | | | |
| Advanced 1Pv4/v6 L3 routing (RIP, OSPF) Stacking bandwidth: 80GPS Full Duplex Stacking density: 12 Stacking Distance: 10km Console Management: USB / Serial w/cable | | | | | |
| VLAN:4096 Spanning Trees (STP): Max: 254 MAC Address-s: Max 16,000 Routes: Max 12,000 | | | | | |
| Trunking: 16 QOS Priority Queues: 8 | | | | | |

| SPECIFICATIONS: | BIDDING ON/REMARKS/COMPLY |
|---|---------------------------------------|
| Jumbo Frame Size: 9216 Bytes | DIDDING ON/REM/ARRS/COMPET |
| AC Power Supply 120-220V | |
| Switching Capacity: 176Gbps | |
| Forwarding Capacity 132Mpps | · · · · · · · · · · · · · · · · · · · |
| remaining cuputty reamppe | |
| Layer 2 Switching: | |
| 802.1s Multiple Spanning Tree | |
| 802.1x Authentication | |
| Auto MDI/MDIX | |
| BPDU Guard, Root Guard | |
| Dual-Mode VLANs | |
| MAC-based VLANs, Dynamic MAC based | |
| VLAN activation | |
| Dynamic VLAN Assignment | |
| Dynamic Voice VLAN Assignment | |
| Fast Port Span | |
| GARP VLAN Registration Protocol | |
| IGMP Snooping (vl/v2/v3) | |
| Link Fault Signaling (LFS) | |
| IGMP Vian Registration Protocol | |
| IGMP Snooping (vI/v2/v3) | |
| IGMP Proxy for Static Groups | |
| IGMP v/2/v3 Fast Leave IGMP Tracking | |
| Inter-Packed Gap (IPG) adjustment | |
| MAC Address Locking; Port Security | |
| MAC-Layer Filtering | |
| MAC Learning Disable | |
| MLD Snooping (vI/v21 | |
| Multi-device Authentication | · |
| Per-VLAN Spanning Tree (PVST/PVST +/PVRST) | |
| Port-based Access Control Lists | |
| Mirroring - Port-based, ACL-based, MAC Filter-based, | |
| and VLAN-based | |
| Port Loop Detection | |
| Private VLAN | |
| Protected link Groups | |
| Protocol VLAN (802.14 Subnet VLAN | |
| Remote Fault Notification (RFN) | |
| Single-instance Spanning Tree | |
| Single-link LACP | |
| Trunk Groups | |
| Uni-Directional link Detection (UDLD) | |
| Cin-Directional link Detection (CDED) | |
| Layer 3 Routing | |
| 1 Pv4 & 1 Pv6 statics route | |
| EMCP | |
| Port based Access Control list | |
| VRRP-E | |
| 1 Pv6 over 1 Pv4 Tunnels | |
| OSPF v3 | |
| PIM-SM, PIM-SSM, PIM-DM, PIM passive | , |
| (1 Pv4 multicast routing functionality) | |
| RIPng | |
| Killing | |
| SDN Feature: | |
| Support Open Row VI.O& VI.3 Feature | |
| OpenFlow support w/ true hybrid post mode | |
| Operates seamlessly under the controller | |
| Operates seamlessiy under the controller | |
| Quality of Sarvina (QQS) | |
| Quality of Service (QOS) ACL Mapping and Marking of ToS/DSC | |
| | |
| ACL Mapping and Marking of 802.Ip | |
| ACL Mapping to Priority Queue | |
| ACL Mapping tQToS/DSCP | |
| Classifying and limiting Flows Based on TCP Flags | |
| DHCP Relay | |
| DiffSery Support | |
| Honoring DSCP and 802.1p | |
| MAC Address Mapping to Priority Queue | |

| SPECIFICATIONS: Priority Queue Management using Weighted Round Robin (WRR), Strict Priority (SP) & a combination of WRR and SP | | BIDDING ON/REMARKS/COMPLY | | | | |
|--|--|---------------------------|--------------|---------------------|--|---|
| | & RFC Standards Compliance High Availability | | | | | |
| | RP protocal Redundancy | | | | | |
| | ime state synchronization across the stack failover from master to standby stack controller | | | | | |
| | ted link group | | | | | |
| | sertion & removal of stacked units | | | | | |
| Five (| 5) Year Warranty- Parts & Labor | | | | | |
| | Office of Technology has upgraded the network wade switches installed within the government. | ith Brocade | switches. Sp | oecifications is si | milar to existing | |
| ITEM NO. | DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION | N |
| 9.1 | BROCADE VDX6740-24-1/10- GbE SFP As per the following specifications | 1 | EA | \$ | | |
| | IFICATIONS: | | BIDDING | ON/REMARK | S/COMPLY | |
| Ports of | Gbe SFP+ ports: 24 on Demand (Pod) increments: 16,24 ate 24 Port: 10Gb | | | | | |
| Max S | Spanning Tree Instances: 32: Port Profiles (AMPP): 256 | | | | | |
| Max I | Layer 2 Multicast Group: 2000 N:4096 | | | | | |
| | Addresses: Max 32,000 | | | | | |
| | Per-Port Priority pause Level: 8 LAG Groups in a VCS fabric: 512 | | - | | | |
| | Members in Standard LAG: 16 | | | | | |
| | MAC Addresses in a CS fabric: 30000 | | | | | |
| | Switch in a VCS fabrics: 24 switches in a VCS fabrics: 24 | | | | | |
| | ECMP paths in a VCS fabrics: 8 | | | | | |
| | Truck Members for VCS fabric ports: 8 | | | | | |
| | witches across which a vLAG can span: 4 Members in a VLAG: 16 | | | | | |
| | umbo Frame Size: 9208 bytes | | - | | 9 | |
| Queue | es per port: 8 | | | | | |
| DCB 1 | Priority Flow Control (PFC) classes | | | | | |
| | Learning and Aging | | | | | |
| | MAC Configuration Aggregation Control Protocal (LACP) | | | | | |
| | AD.802.1ax | | (| | | |
| VLAN | | | | | | |
| | N Encapsulation 802.IQ | | | | | |
| | Spanning Tree Protocal (RSTP) 802.ID ble Spanning Tree Protocol (MSTP) 802.IS | | | | y | |
| | ian Spanning Tree (PVST=/PVRST+) | | | | —————————————————————————————————————— | |
| | rtFast&PortFast BDPU Guard | | | | | |
| | 2 Access Control Lists (ACL) ss Resolution Protocol (ARP) RFC 826 | | | | | |
| | vl/v2 Snooping | | | | | |
| | Frames 802.3x | | | | | |
| | Fabric Features: | | | | | |
| | natic Fabric Formation buted Fabric Services | | - | | 9 | |
| | port LAN Services | | | | | |
| VLAN | | | | | | |
| | ning Beaconing outed Configuration Management | | | | | |
| | oot Guard | | | | | |
| | 2 Access Control List (ACLs) | | | | 9 | |
| Addre | ss Resolution Protocol (ARP) RFC 826 | | | | | |

| IGMP VI/V2 Snooping Distributed Configuration Management STP Root Guard Layer 2 Access Control List (ACLs) Address Resolution Protocol (ARP) RFC 826 IGMP VI/V2 Snooping | | | | |
|---|------------------|--|----------------|--------------------|
| DCB Features: Priority-based Flow Control (PFC) 802.IQbb Enhanced Transmission Servics (ETS) Data Center Bridging Exchange (DCBX) DCBX Application Type-Lengh-Valve (TLV) for FCoE and ISCSI | | | | |
| FCOE Features MultiHop Fiber Channel over Ethernet (FCoE) FC-BB5 ComliantFibre Channel Forwarder (FCF) Native FCoE Forwarding End-of-end FCoE (Initiator to target) FCoE Initialization Protocol (FIP)vl support for FCoE devices login and initialization | | | | |
| Quality of Service (QOS) Eight priority level for QOS Class of Services (CoS) 802.1p Per-port QoS configuration Scheduling Strict Priority (SP), Shaped Deficit Weighted Round-Robin (SDWRR) Power Supples: (2) Internal - Redundant 120/220 Voltage - North America Power Cord connects to PON Unit Five (5) Year Warranty- Parts & Labor | | | | |
| | | | | |
| ITEM NO. DESCRIPTION | QTY | UOM | UNIT PRICE | PRICE EXTENSION |
| | QTY 1 | UOM EA | | EXTENSION |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), | | 35. 4 (per alaba per al a a a a a a a a a a a a a a a a a a | PRICE | EXTENSION |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), 8 1/10GbE SFP ports required. 11.1 BROCADE VDX 6720 1Gb SFP+ Module | 1 | EA | PRICE \$ | \$ |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), 8 1/10GbE SFP ports required. 11.1 BROCADE VDX 6720 1Gb SFP+ Module (1GbE SFP+ optics) with LX required. 12.1 BROCADE VDX 6720 10Gb SFP+ Module | 1 | EA EA | PRICE \$ \$ | \$ |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), 8 1/10GbE SFP ports required. 11.1 BROCADE VDX 6720 1Gb SFP+ Module (1GbE SFP+ optics) with LX required. 12.1 BROCADE VDX 6720 10Gb SFP+ Module (10GbE SFP+ optics) SR | 1 1 | EA EA | \$ \$ \$ | \$ \$ |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), 8 1/10GbE SFP ports required. 11.1 BROCADE VDX 6720 1Gb SFP+ Module (1GbE SFP+ optics) with LX required. 12.1 BROCADE VDX 6720 10Gb SFP+ Module (10GbE SFP+ optics) SR 13.1 BROCADE VDX 6720 1GB TX | 1 1 1 | EA EA EA | \$\$ \$\$ | \$ \$ \$ |
| NO. DESCRIPTION 10.1 BROCADE VDX 6720 1/10Gb SFP+ Module Refers to Ports on Demand (PoD), 8 1/10GbE SFP ports required. 11.1 BROCADE VDX 6720 1Gb SFP+ Module (1GbE SFP+ optics) with LX required. 12.1 BROCADE VDX 6720 10Gb SFP+ Module (10GbE SFP+ optics) SR 13.1 BROCADE VDX 6720 1GB TX 14.1 BROCADE VDX 6720 10G TWINAX 15.1 BROCADE VDX 6720 10Gb SFP+ Module | 1 1 1 1 | EA EA EA EA | \$ \$ \$ \$ | \$ \$ \$ \$ \$ |

Note: Office of Technology has upgraded the network with Brocade switches. Specifications is similar to existing Brocade switches installed within the government.

EA

18.1

BROCADE ICX7250 8x10G-LIC-POD

The above specifications have been developed by the staff of the Office of Technology, Department of Administration and approved by Christine Baleto, Director of Department of Administration.